



Merlin Project and results overview

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September 26, 2007

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Consortium

- Finland:
 - Nokia Application partner
 - Solid Application partner (SME)
 - Oulu University Technology partner
 - VTT Technology and exploitation partner
 - Incode Application partner (SME)
- Netherlands:
 - Philips Technology and application partner
 - LogicaCMG Application and exploitation partner
 - Delft University Technology partner
- Sweden:
 - Sony Ericsson Technology and application partner
 - Ericsson Technology and application partner
 - Lund University Technology partner

Merlin Project Objective

“Merlin discovers innovative ways for embedded systems engineering in *collaboration* by enhancing and improving software engineering processes, methods, techniques and tools that fit for different forms of collaborative development”

- Companies hardly develop embedded products completely on their own. Embedded systems need to be developed:
 - globally distributed
 - in collaboration with subcontractors, third party developers and in-house development
 - using the advantages of collaboration, solving the disadvantages



The demonstrator presents a case



Hello!

SUPPLIER





in collaborative embedded system development



Terve!
Tekn. Oyj

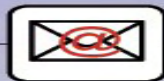
INTEGRATOR







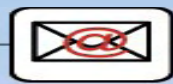
Is our change in code working?



Receive report (in Chinese)



Ask translated report



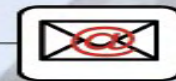
Integrate change and
send it for tests

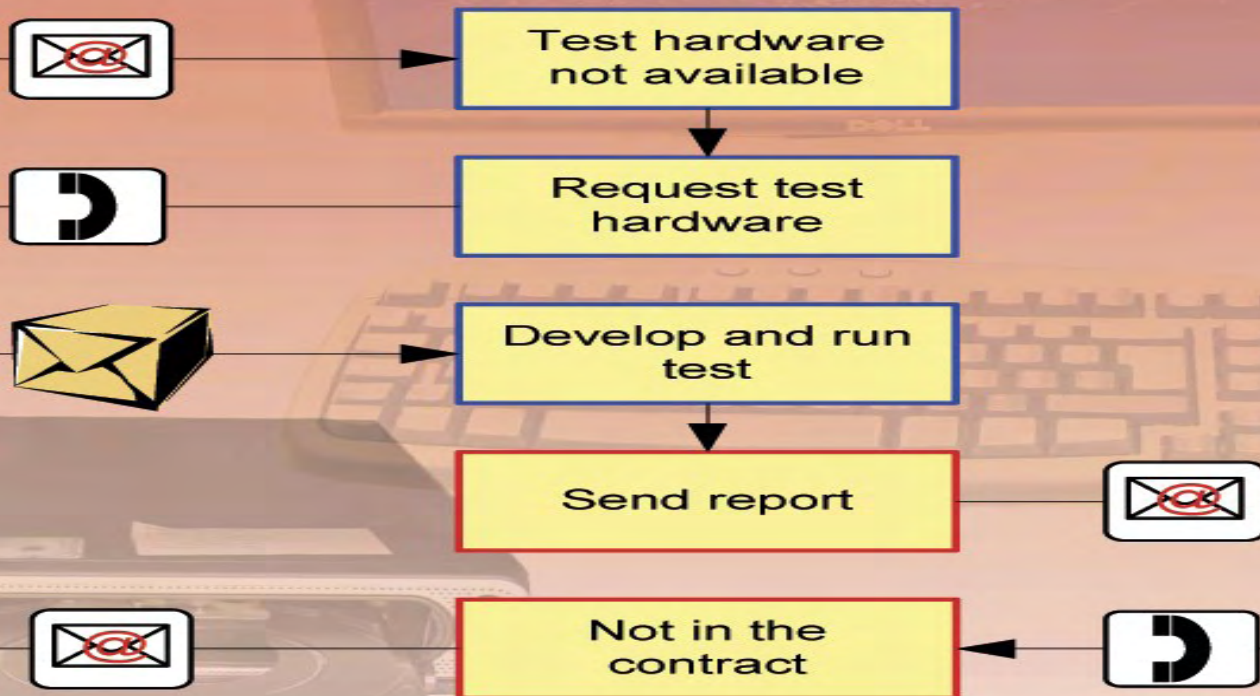
Request tests

Find test hardware

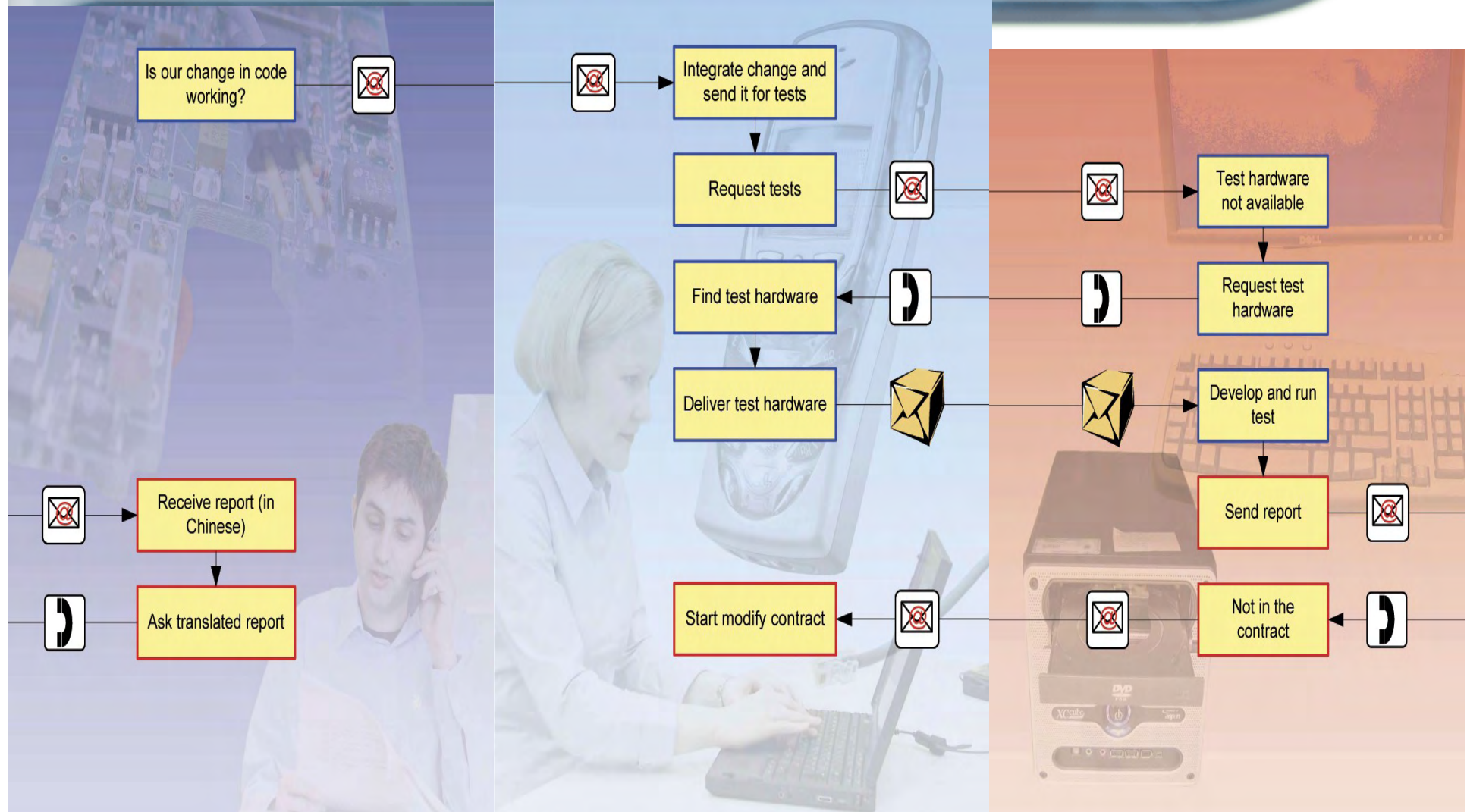
Deliver test hardware

Start modify contract

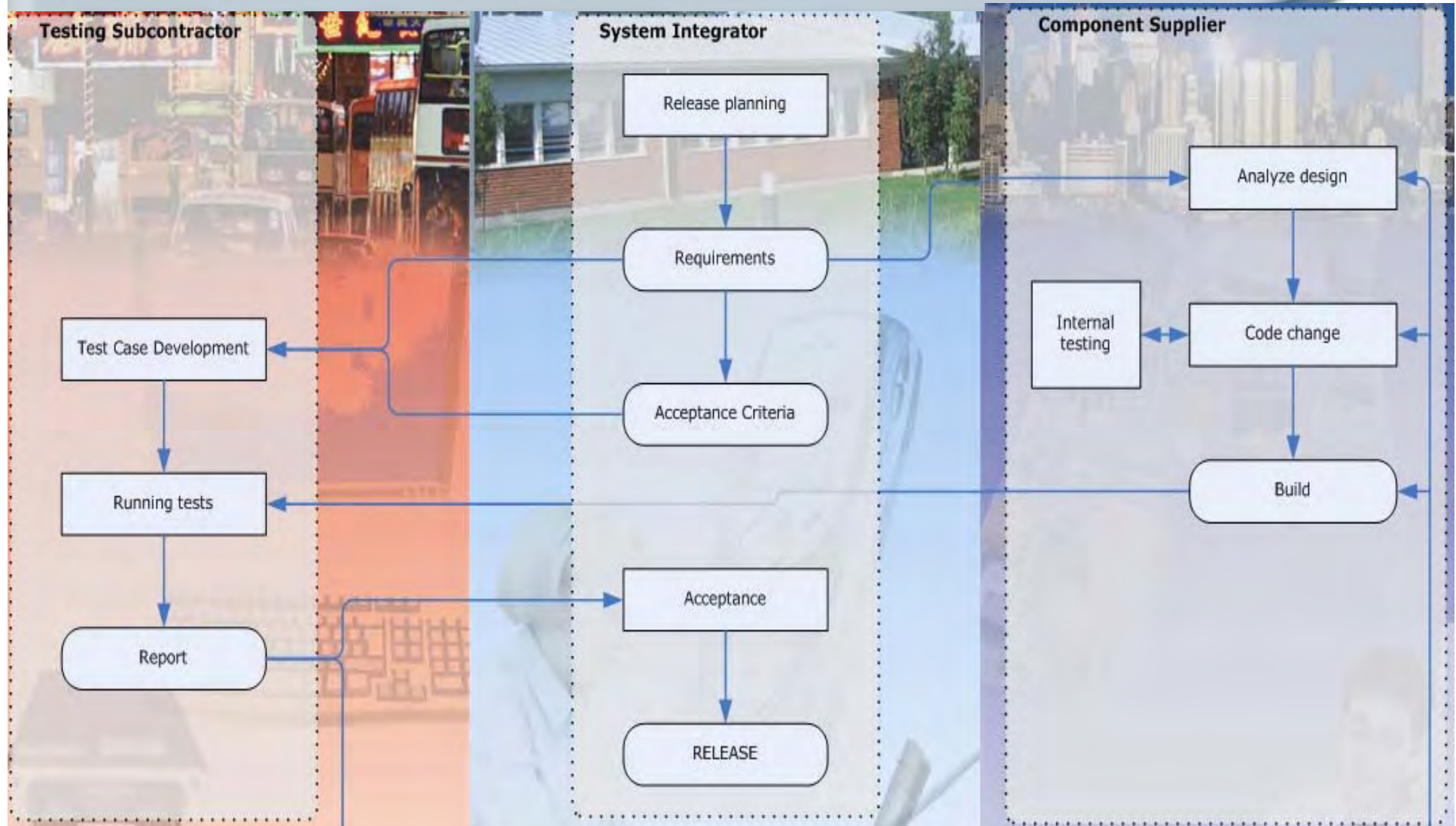




Common Practice Scenario



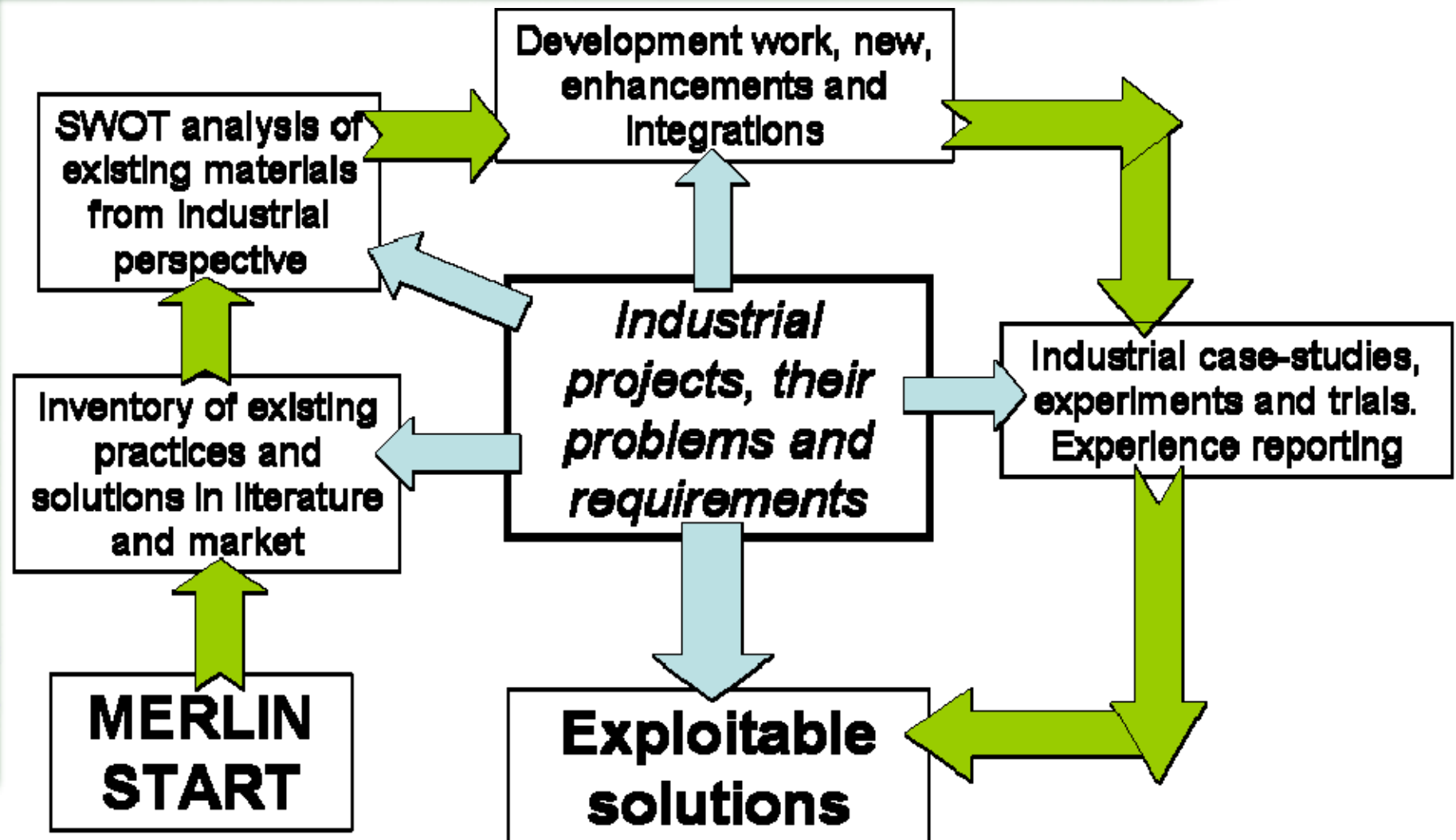
Ideal Scenario



What does Merlin Project do?

- Enabling the collaborative development of embedded systems with multiple partners
- Emphasising the advantages of collaborative development and neutralising the disadvantages of collaboration
- Developing dedicated effective and efficient processes and technologies for collaboration
- Increasing deployability by initiating industrial cases to validate Merlin solutions
- Enhance project results into exploitable solutions for collaborative development

How we achieve our objective?



9 Exploitable Solutions

- ***Merlin ToolChain:***
Interconnecting tools between partners
- ***Merlin Handbook:***
Your personal navigator to collaboration success
- ***QUPER:***
Your support in roadmapping performance requirements
- ***Adaptability evaluation AEM:***
Ensure survival and succes of your system
- ***CollabTools Report:***
Your overview on collaboration support tools
- ***SkyFab:***
Build and test your distributed software in a minute
- ***ParSEQ:***
Improve your requirements selection quality
- ***Req. Analyst tool:***
Automated traceability reconstruction
- ***TM1 Benchmark:***
Measure performance in critical Telco applications

Summary of main results

- Impressive results
 - The Merlin Handbook has been finalised including validation by 14 external testers
 - The Merlin ToolChain has been implemented, including possibility to select from several different tools for PM, RM, Testing and CM and guidelines for how to integrate other tools to the Merlin ToolChain. The ToolChain has been validated in a real-life industrial case
 - Merlin web-site up and running (www.merlinproject.org)
- Project successfully finalized
 - All 126 deliverables and milestones in time, progress and efforts according to plan; 9 exploitable solutions abstracted
 - Many dissemination activities have been carried out and finalized with 60 publications in total